

DESCRIPTION

PMI MODEL: PS-2G18G-360-8D IS A 2 TO 18 GHz, 8-BIT, VECTOR PHASE SHIFTER MAKING IT IDEAL FOR FREQUENCY TRANSLATION WHERE CONTINUOUS MONOTONIC PHASE SHIFTING IS REQUIRED. THIS MODEL ALSO FEATURES HIGH SPEED SWITCHING, AND TYPICALLY LOWER THAN 60dB HARMONIC DISTORTION.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 2.0 TO 18.0 GHz
- PHASE RANGE: ----- 360°
- RF INPUT POWER: ----- +20 dBm CW, 1.0 WATT MAX
- INSERTION LOSS: ----- 18.0 dB MAX
- VSWR: ----- 2.2:1 MAX (50 OHM SYSTEM)
- PHASE VS FREQUENCY: ----- ±15.0° TYP. , ± 20.0° TYP. (17.0 TO 18.0 GHZ)
- CONTROL LOGIC: ----- 8 BIT TTL COMPATIBLE
- CONTROL SLOPES: ----- LINEAR
- SWITCHING SPEED: ----- 500 ns MAX
- POWER SUPPLY: ----- ± 12V TO ±15V @ ±100mA MAX
- RF CONNECTORS: ----- SMA FEMALE INPUT AND OUTPUT
- POWER/LOGIC CONNECTIONS: ----- DC-37P, SUB MINIATURE D MULTI-PIN
- SIZE: ----- 4.25" X 3.50" X 1.00"
- FINISH: ----- PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -10 °C TO +60 °C (OPERATING)
----- -65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	1/8/16	
	A1	ECN # 16-0079	6/22/2016	
	A2	ECN # 19-0011	1/18/2019	

37-PIN CONNECTOR PIN-OUT

PIN	FUNCTION	PIN	FUNCTION
1	1.41° (LSB)	20	NC
2	2.81°	21	5.63°
3	11.25°	22	NC
4	22.5°	23	NC
5	45°	24	NC
6	90°	25	180° (MSB)
7	NC	26	NC
8	+12V TO +15V	27	NC
9	GND	28	GND
10	GND	29	NC
11	-12V TO -15V	30	NC
12	NC	31	NC
13	NC	32	NC
14	NC	33	NC
15	NC	34	NC
16	NC	35	NC
17	NC	36	NC
18	NC	37	NC
19	NC		

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

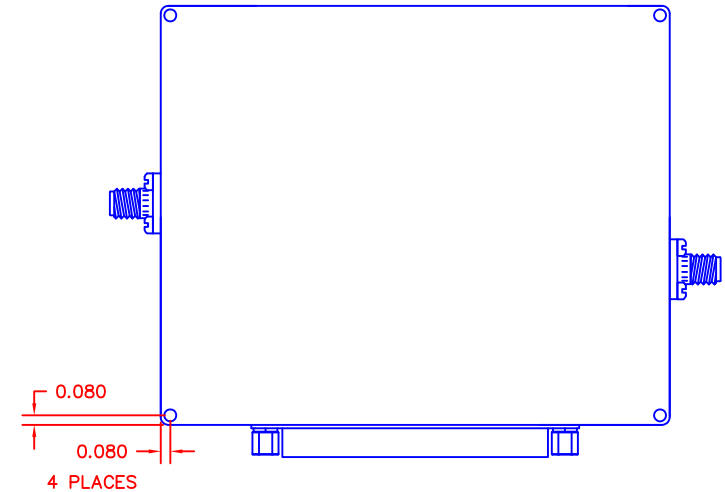
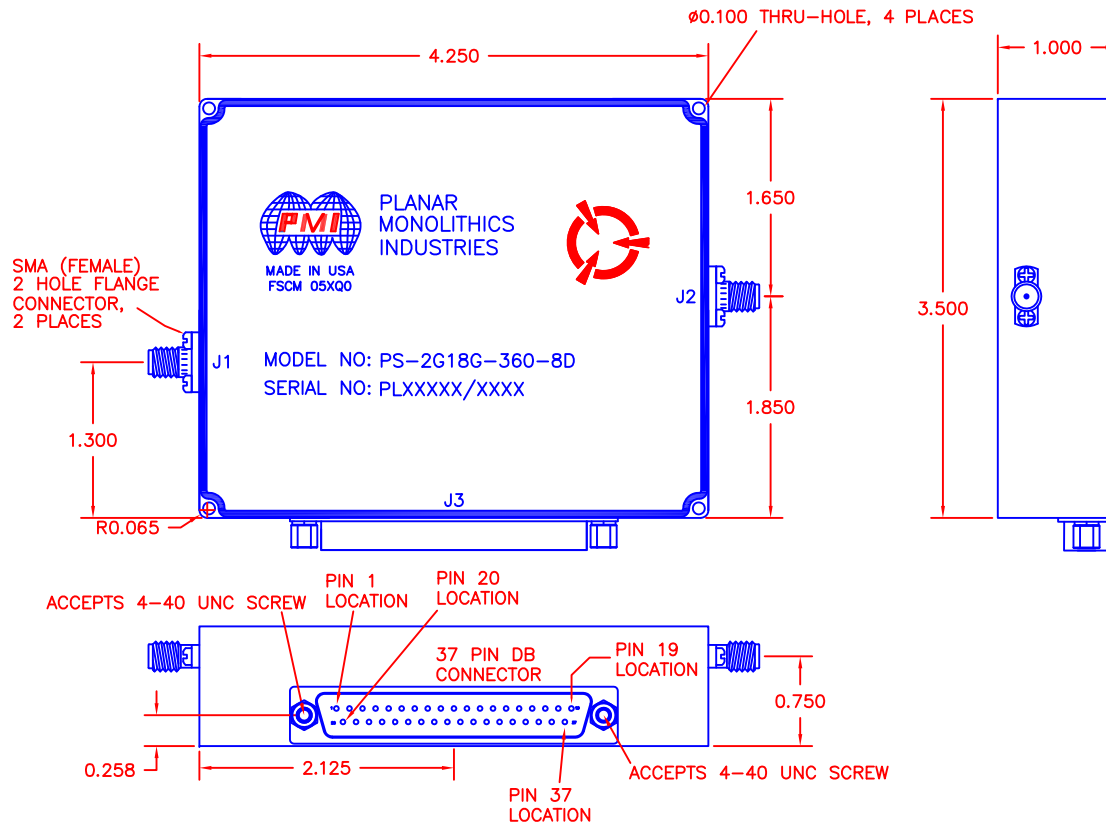
ISO 9001 CERTIFIED



		TITLE PRODUCT FEATURE PS-2G18G-360-8D			
APPROVALS	DATE				
DRAWN <i>M&B</i>	<i>1/8/16</i>				
CHECKED		SIZE A	FSCM NO. 05XQ0	DWG NO. 27028971	REV. A2
ISSUED		SCALE N:S		SHEET 1 OF 2	

MECHANICAL OUTLINE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
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ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

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APPROVALS		DATE		TITLE	
DRAWN		1/8/16		PRODUCT FEATURE	
CHECKED				PS-2G18G-360-8D	
ISSUED					
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27028971	A2		
SCALE N:S		SHEET		2 OF 2	